

DECISION DOCUMENT  
107 DRUM STORAGE, SWMU J-04  
Hawthorne Army Depot  
Hawthorne, Nevada  
October 1999

**1. PURPOSE of DECISION DOCUMENT**

**1.1 Introduction**

This decision document describes the rationale for the remedial action at, and closure of, Solid Waste Management Unit (SWMU) J-04, 107 Drum Storage, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers, Sacramento District (USACE), HWAD, and Day & Zimmermann Hawthorne Corporation, with support from the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP).

**1.2 Site Description and Background**

SWMU J-04 is an open air drum stockpile area located in the Group 107 area, northwest of SWMU J-2.

The site is visible on a 1980 aerial photograph (EMSL, 1981). The photograph shows an area about 3,200 feet long and about 800 feet wide (about 60 acres), containing clusters of drums located at regular intervals along four unpaved roads running the length of the Group 107 area. In the photograph, the individual clusters of drums appears to be about 90 feet long and about 30 feet wide and are spaced about 150 feet to 200 feet apart. The drums stored in the area are mostly empty fiber drums that had formerly contained aluminum powder. Aluminum powder was used in the manufacture of various binary explosive charges.

Not all of the storage sites contained drums. Some contained boxes, canisters, or scrap. In the aerial photograph, there are about 35 potential staging sites. Of these 35 sites, 8 contained drums, 6 contained full or scrap boxes, 1 was identified as a scrap pile, and 1 contained canisters. The remaining 19 staging areas can not be identified in the photograph or were not used. Most of the drums at the time of the aerial photograph were located in the northwestern end of the Group 107 area.

The site is within an area mapped as Soda Lake gravelly loamy sand, located on former beach plains. The parent material of the Soda Lake sand is a mix of sandy alluvium with additions of volcanic ash (Goddard, 1991).

Tetra Tech reviewed all previous work done for the Group B SWMUs and compiled an annotated bibliography for past work (Tetra Tech, 1993).

Tetra Tech performed a visual site inspection in November 1993. At that time, many of the discrete staging areas were clearly distinguishable by wooden beams set horizontally in the ground, apparently the remains of platforms on which the material was stored. At some of the sites, metal

drum lids and hoops were observed. There was evidence of spillage on the ground at some locations.

The size of the staging areas suggests that about 150 pallets, each about four square feet, could have been staged at each site. If each pallet contained four drums and was stacked one layer high, then about 4,800 drums could have been staged at the eight locations identified in the 1980 aerial photograph.

Ground water is unlikely to be impacted because aluminum powder is insoluble in alkaline conditions, and little infiltration of water is expected.

Tetra Tech conducted a basewide ground water level survey in March, 1994. Based on this survey, ground water at USGS well 3, adjacent to SWMU J-04 was measured at an elevation of 4,020 feet msl (40 feet bgs).

The principal environmental concern was the potential for ingestion or inhalation of windblown dust containing aluminum. Previous studies of the soils in the area indicated that aluminum may be a major natural constituent of the soils.

### **1.3 Chemicals of Concern**

The chemicals of concern at SWMU J-04 are listed in Table 1.

**TABLE 1 - SUMMARY of CHEMICALS of CONCERN**

<b>Chemical of Concern</b>	<b>Rationale Behind Designation</b>	<b>Reference</b>
Metals	Possible disposal of metals.	EMSL, 1981
Aluminum	Possible disposal of aluminum powder from manufacture of binary explosive charges at site.	EMSL, 1981
Explosives	Possible disposal of explosives from manufacture of binary explosive charges.	EMSL, 1981

### **2. SUMMARY of SITE RISK**

Explosives results for all soil samples were non-detect.

Aluminum was detected in one soil sample at 84,000 mg/kg, exceeding the closure goal of 80,000 mg/kg, and two samples detected arsenic at 31 mg/kg and 51 mg/kg, exceeding the closure goal of 30 mg/kg for arsenic. All other metals were detected at concentrations below their respective closure goals.

The results of the near surface soil sampling indicate that there are

elevated levels of aluminum and arsenic in the surface soils in areas where the aluminum compounds were stored, and are likely the result of minor spills. Based on the visual inspection of the SWMU, the soils that contain these elevated concentrations of metals appear to be localized to the immediate area of only a few drum storage pads. Tetra Tech concludes that the majority of the surface soils within this SWMU contain concentrations of the chemicals of concern below the proposed closure goals, and the elevated concentrations of aluminum and arsenic are restricted to a few areas within the SWMU. It is unlikely that these slightly impacted surface soils will impact the ground water at a depth of 40 feet. Therefore, it does not appear that the near surface soils at this SWMU pose a threat to human health or the environment, and do not warrant further action.

### **3. SUMMARY of REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS**

#### **3.1 Remedial Investigations**

##### **3.1.1 Objectives**

The objective of the site investigation at SWMU J-04 was:

- To determine the presence of aluminum powder, metals, and explosives in the near surface soils beneath the drum staging areas and general area of the site.

This objective was met.

##### **3.1.2 Planned and Actual Investigation**

Planned and actual field activities are described in Table 2. Figure J-04-2 shows the locations of the actual field investigation activities at SWMU J-04. A permanent monument was installed and surveyed, and SWMU boundaries delineated, at the locations shown on these figures. The appendices of this report include HWAD proposed closure goals for soils, lab results and detection limits, survey results, and photographs. All activities were conducted based on the Work Plan (Tetra Tech, 1994a), Site Safety and Health Plan (Tetra Tech, 1994b) and the Chemical Data Acquisition Plan (Tetra Tech, 1994c).

TABLE 2 - SUMMARY OF PLANNED AND ACTUAL FIELD INVESTIGATIONS

Planned Investigation	Actual Investigation	Comments
Near Surface Sampling - 27 composite soil samples in 27 staging area locations, 10 soil samples in 10 inner/between locations, 5 background soil samples in Soda Lake soil type.	Near Surface Sampling - 28 composite soil samples at 28 staging area locations, 10 soil samples at 10 inner/between locations.	One additional sample taken at previously unidentified staging area. Soda Lake background samples to be collected in 1995.
Waste Characterization - 10 samples of material as powder	Waste Characterization - Conducted as part of the near surface soil sampling.	
Surveying - GPS* at near surface sample locations.	Surveying - GPS at near surface sample locations.	

\*GPS = Global positioning system

Soil samples collected and analyses performed are as follows:

<u>Sample Locations</u>	<u>Depth</u> <u>(ft)</u>	<u>Metals</u> <u>Analyses</u>	<u>Explosives</u> <u>Analyses</u>
<b>Near Surface</b>			
SS01 - SS38 (38 locations)	0.5	Y	Y

### 3.1.3 Results

Table 3 lists analytical results for metals for near surface soil sampling. Table 4 lists analytical results for explosives for near surface soil sampling. The associated background levels of metals and the proposed closure goals are also shown in Table 3.

TABLE 3 - SUMMARY OF METALS ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	Metals (mg/kg)								
			EPA Method 6010 (Method 7471 for Hg)								
			Al	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
<b>Near Surface Sampling</b>											
J04-SS01-1-SC	21-Jul-94	0.50	19,000	27	72	ND*	2.8	ND	ND	ND	ND
J04-SS02-1-SC	21-Jul-94	0.50	2,700	22	80	ND	2.4	ND	ND	ND	ND
J04-SS03-1-SC	21-Jul-94	0.50	3,900	18	86	ND	3.2	ND	ND	ND	ND
J04-SS04-1-SC	21-Jul-94	0.50	3,800	15	67	ND	3.3	ND	ND	ND	ND
J04-SS05-1-SC	21-Jul-94	0.50	4,200	13	78	ND	3.4	ND	ND	ND	ND
J04-SS06-1-SC	21-Jul-94	0.50	3,400	33	78	ND	2.3	ND	ND	ND	ND
J04-SS07-1-SC	21-Jul-94	0.50	2,500	16	68	ND	1.9	5.7	ND	ND	ND
J04-SS08-1-SC	21-Jul-94	0.50	3,000	28	98	ND	2.3	ND	ND	ND	ND
J04-SS09-1-SC	21-Jul-94	0.50	4,000	30	61	ND	2.3	ND	ND	ND	ND
J04-SS10-1-SC	21-Jul-94	0.50	5,200	18	61	ND	2.3	ND	ND	ND	ND
J04-SS11-1-SC	21-Jul-94	0.50	3,800	19	79	ND	2.2	ND	ND	ND	ND

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J04-SS12-1-SC	21-Jul-94	0.50	19,000	15	75	ND	2.8	5.7	ND	ND	ND
J04-SS13-1-SC	21-Jul-94	0.50	2,600	19	66	ND	1.7	6.7	ND	ND	ND
J04-SS14-1-SC	21-Jul-94	0.50	3,700	18	61	ND	2.2	ND	ND	ND	ND
J04-SS15-1-SC	21-Jul-94	0.50	2,500	20	73	ND	1.6	5	ND	ND	ND
J04-SS16-1-SC	21-Jul-94	0.50	84,000	28	54	2.0	3.6	ND	0.074	ND	ND
J04-SS17-1-SC	21-Jul-94	0.50	3,400	21	72	ND	1.8	ND	0.08	ND	ND
J04-SS18-1-SC	21-Jul-94	0.50	2,100	23	81	ND	1.9	ND	0.054	ND	ND
J04-SS19-1-SC	21-Jul-94	0.50	2,600	22	56	ND	1.3	ND	0.076	ND	ND
J04-SS20-1-SC	21-Jul-94	0.50	4,600	17	71	ND	2.9	5.3	0.050	ND	ND
J04-SS21-1-SC	22-Jul-94	0.50	1,800	18	72	ND	0.9	ND	ND	ND	ND
J04-SS22-1-SC	22-Jul-94	0.50	2,700	14	53	ND	1.4	ND	ND	ND	ND
J04-SS23-1-SC	22-Jul-94	0.50	1,900	22	64	ND	1.1	ND	0.045	ND	ND
J04-SS24-1-SC	21-Jul-94	0.50	15,000	22	80	ND	1.3	ND	ND	ND	ND
J04-SS25-1-SC	21-Jul-94	0.50	26,000	19	74	ND	1.2	5.8	0.049	ND	ND
J04-SS26-1-SC	21-Jul-94	0.50	2,900	19	70	ND	0.7	ND	0.053	ND	ND
J04-SS27-1-SC	21-Jul-94	0.50	2,900	23	77	ND	1.3	ND	0.056	ND	ND
J04-SS28-1-S	22-Jul-94	0.50	2,400	20	52	ND	0.8	ND	ND	ND	ND
J04-SS29-1-S	22-Jul-94	0.50	2,000	25	82	ND	0.6	ND	0.048	ND	ND
J04-SS30-1-S	22-Jul-94	0.50	1,500	19	60	ND	ND	ND	ND	ND	ND
J04-SS31-1-S	22-Jul-94	0.50	3,700	13	56	ND	2.6	ND	ND	ND	ND
J04-SS32-1-S	22-Jul-94	0.50	2,100	22	76	ND	ND	ND	0.044	ND	ND
J04-SS33-1-S	22-Jul-94	0.50	1,300	24	83	ND	ND	ND	0.035	ND	ND
J04-SS34-1-S	22-Jul-94	0.50	2,000	31	60	ND	0.8	ND	ND	ND	ND
J04-SS35-1-S	22-Jul-94	0.50	2,200	20	75	ND	0.8	ND	0.046	ND	ND
J04-SS36-1-S	22-Jul-94	0.50	1,800	29	84	ND	ND	ND	0.080	ND	ND
J04-SS37-1-S	22-Jul-94	0.50	2,000	51	56	ND	1.1	6.1	0.044	ND	ND
J04-SS38-1-SC	21-Jul-94	0.50	2,500	20	76	ND	0.9	8.8	0.045	ND	ND
<b>Associated Background Samples</b>	<b>Soil Series</b>	<b>Mappable Unit</b>	<b>Al</b>	<b>As</b>	<b>Ba</b>	<b>Cd</b>	<b>Cr</b>	<b>Pb</b>	<b>Hg</b>	<b>Se</b>	<b>Ag</b>
B10	Soda Lake	511	2,100	20	69	ND	2.1	ND	ND	ND	ND
B25	Soda Lake	511	2,200	13	72	ND	1.2	ND	ND	ND	ND
B26	Soda Lake	511	1,900	15	63	ND	1.9	ND	ND	ND	ND
<b>Proposed Closure Goals</b>			80,000	30	5,600	40	80,000	1,000	24	400	400

\*ND = Below laboratory method detection limit for all analytes

TABLE 4 - SUMMARY OF EXPLOSIVES ANALYTICAL RESULTS

Sample Number	Sampled Date	Sample Depth (ft)	Explosives (ng/kg)
			EPA Method 8090-M or 8330
<b>Near Surface Sampling</b>			
J04-SS01-1-SC	21-Jul-94	0.50	ND*
J04-SS02-1-SC	21-Jul-94	0.50	ND
J04-SS03-1-SC	21-Jul-94	0.50	ND
J04-SS04-1-SC	21-Jul-94	0.50	ND
J04-SS05-1-SC	21-Jul-94	0.50	ND
J04-SS06-1-SC	21-Jul-94	0.50	ND
J04-SS07-1-SC	21-Jul-94	0.50	ND
J04-SS08-1-SC	21-Jul-94	0.50	ND
J04-SS09-1-SC	21-Jul-94	0.50	ND
J04-SS10-1-SC	21-Jul-94	0.50	ND
J04-SS11-1-SC	21-Jul-94	0.50	ND
J04-SS12-1-SC	21-Jul-94	0.50	ND
J04-SS13-1-SC	21-Jul-94	0.50	ND
J04-SS14-1-SC	21-Jul-94	0.50	ND
J04-SS15-1-SC	21-Jul-94	0.50	ND
J04-SS16-1-SC	21-Jul-94	0.50	ND
J04-SS17-1-SC	21-Jul-94	0.50	ND
J04-SS18-1-SC	21-Jul-94	0.50	ND
J04-SS19-1-SC	21-Jul-94	0.50	ND
J04-SS20-1-SC	21-Jul-94	0.50	ND
J04-SS21-1-SC	22-Jul-94	0.50	ND
J04-SS22-1-SC	22-Jul-94	0.50	ND
J04-SS23-1-SC	22-Jul-94	0.50	ND
J04-SS24-1-SC	21-Jul-94	0.50	ND
J04-SS25-1-SC	21-Jul-94	0.50	ND
J04-SS26-1-SC	21-Jul-94	0.50	ND
J04-SS27-1-SC	21-Jul-94	0.50	ND
J04-SS28-1-S	22-Jul-94	0.50	ND
J04-SS29-1-S	22-Jul-94	0.50	ND
J04-SS30-1-S	22-Jul-94	0.50	ND
J04-SS31-1-S	22-Jul-94	0.50	ND
J04-SS32-1-S	22-Jul-94	0.50	ND
J04-SS33-1-S	22-Jul-94	0.50	ND
J04-SS34-1-S	22-Jul-94	0.50	ND
J04-SS35-1-S	22-Jul-94	0.50	ND
J04-SS36-1-S	22-Jul-94	0.50	ND
J04-SS37-1-S	22-Jul-94	0.50	ND
J04-SS38-1-SC	21-Jul-94	0.50	ND

\*ND = Below laboratory method detection limit for all analytes

### **3.2 Remedial Actions**

#### **3.2.1 Summary of Remedial Alternatives**

All surface debris items that could be suspect of leaching arsenic, barium, beryllium, chromium, lead, mercury, explosives, asbestos, and petroleum will be removed from the SWMU. Items that test negative for the listed parameters are to be buried in the HWAD landfill provided they meet the landfill requirements for burial. Items where the test exceed RCRA requirements will be disposed of in accordance with existing environmental regulations.

#### **3.2.2 Summary of Remedial Actions**

The surface debris, principally wood and scrap steel, was removed from the site and properly disposed. Based on visual inspection of the metal debris removed from the site revealing it to be ordinary scrap metal, the metal items were not sampled. Small chunks of caked aluminum powder were observed at two adjacent locations. The aluminum powder was containerized and properly disposed. Photographs of the site before and after implementation of this alternative are included at Appendix D.

### **4. CONCLUSIONS and RECOMMENDATIONS**

The HWAD proposed closure goals for soils are listed in Appendix A. These closure goals were used in evaluating detected chemicals.

Explosives results for all soil samples were non-detect.

Aluminum was detected in one soil sample at 84,000 mg/kg, exceeding the closure goal of 80,000 mg/kg, and two samples detected arsenic at 31 mg/kg and 51 mg/kg, exceeding the closure goal of 30 mg/kg for arsenic. All other metals were detected at concentrations below their respective closure goals.

The results of the near surface soil sampling indicate that there are elevated levels of aluminum and arsenic in the surface soils in areas where the aluminum compounds were stored, and are likely the result of minor spills. Based on the visual inspection of the SWMU, the soils that contain these elevated concentrations of metals appear to be localized to the immediate area of only a few drum storage pads. Tetra Tech concludes that the majority of the surface soils within this SWMU contain concentrations of the chemicals of concern below the proposed closure goals, and the elevated concentrations of aluminum and arsenic are restricted to a few areas within the SWMU. It is unlikely that these slightly impacted surface soils will impact the ground water at a depth of 40 feet. Therefore, it does not appear that the near surface soils at this SWMU pose a threat to human health or the environment, and do not warrant further action.

It is recommended that no further investigation be performed at this SWMU and that the site be closed with regard to the chemicals of concern and without land use restrictions.

**5. PUBLIC/COMMUNITY INVOLVEMENT**

It is U.S. Department of Defense and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established a repository in the local public library, which includes final copies of all past studies and documents regarding environmental issues at the facility. This repository will be maintained and updated with all future final documents as they are issued to HWAD.

HWAD has solicited community participation in establishment of the restoration advisory board (RAB). However, because of insufficient public response, HWAD has not formed a RAB. HWAD will continue to solicit community involvement.

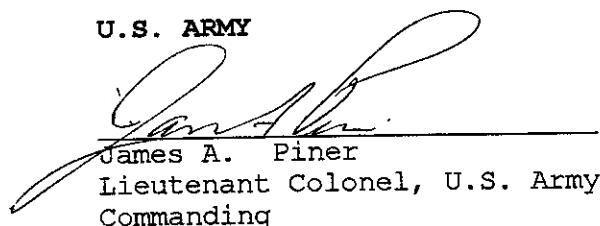
**6. DECLARATION**

The selected remedy is protective of human health and the environment. It has been shown that a complete exposure pathway to human health and the environment does not exist, and there is no potential for such an exposure pathway to be completed in the future.

U.S. ARMY

4 Nov 99

Date



James A. Piner  
Lieutenant Colonel, U.S. Army  
Commanding

STATE OF NEVADA

22 Nov 99

Date

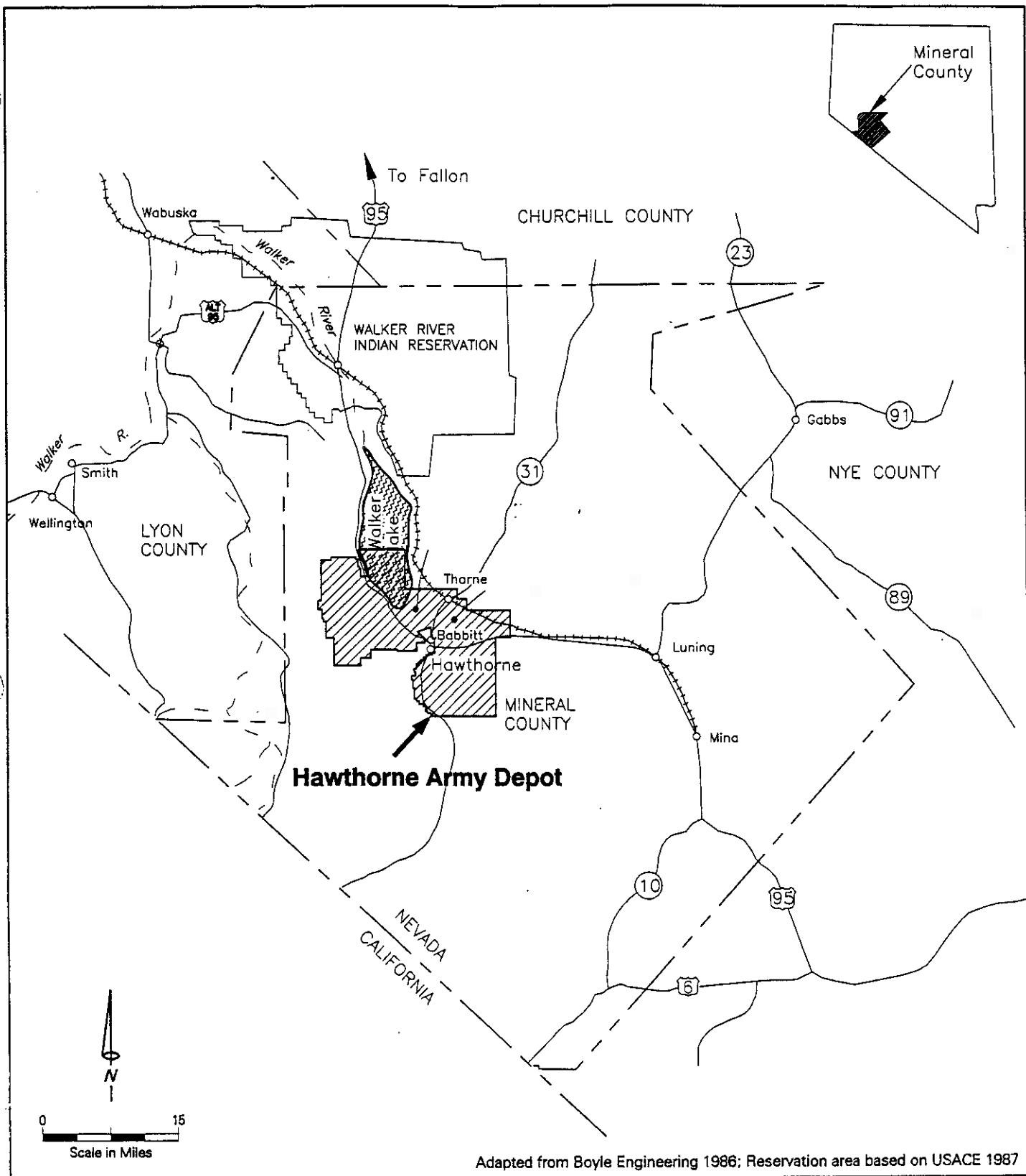


Paul Liebendorfer  
Chief, Bureau of Federal Facilities

**REFERENCES**

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- USACE. 1993. Installation Action Plan for Hawthorne Army Ammunition Plant (HWAAP), prepared by S. Hong.

## **Figures**



## Location Map

### Legend

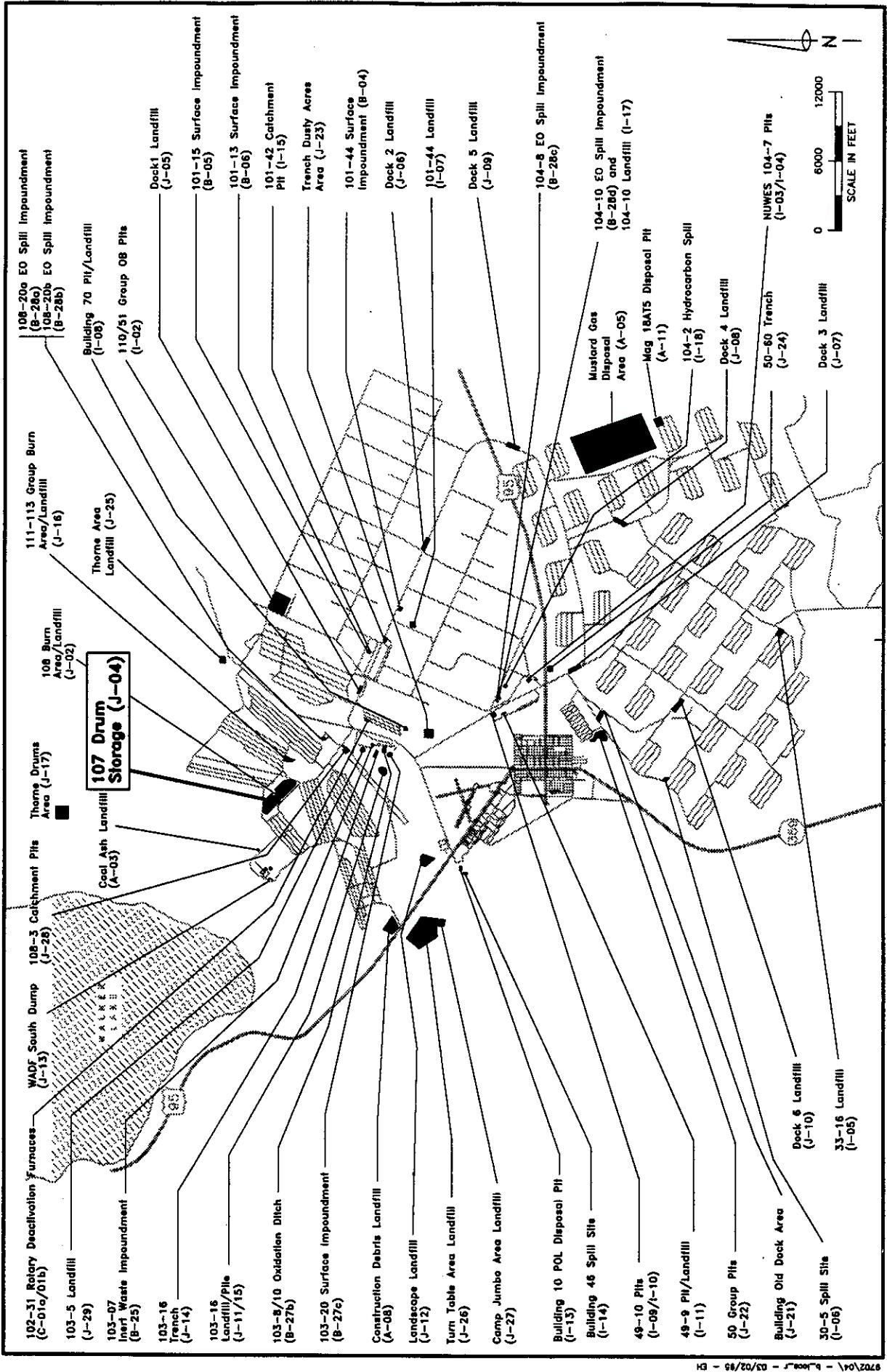


Hawthorne Army Depot

Hawthorne Army Depot  
Hawthorne, Nevada



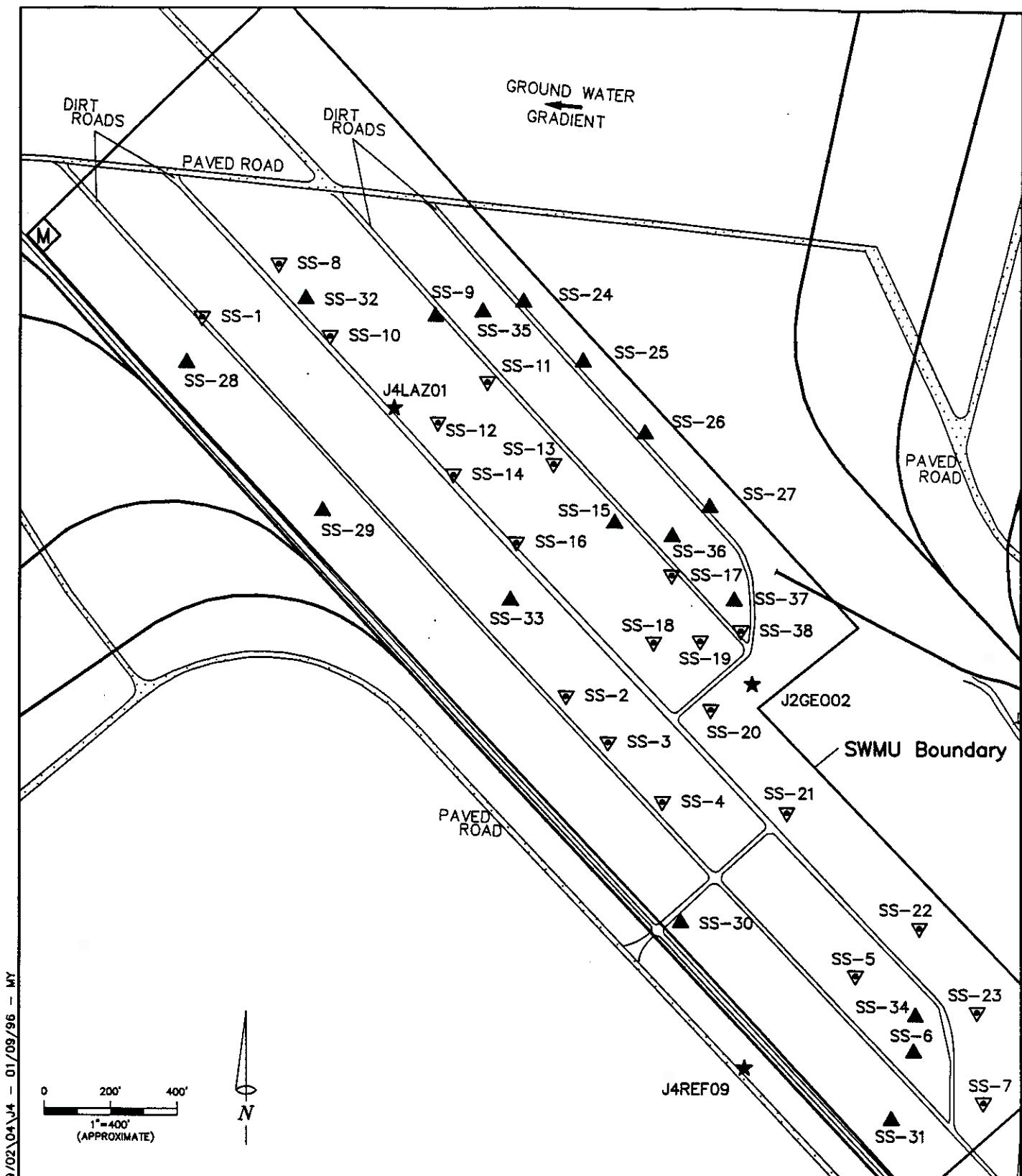
Tetra Tech, Inc.



**TECH.**  
*Location Map*  
*Hawthorne Army Depot*

**Hawthorne, Nevada**

**Figure SWMU-J-04-1**



**TETRA TECH**  
**Activity Map**  
**SWMU J-04**  
**107 Drum Storage**  
**Hawthorne Army Depot**  
**Hawthorne, Nevada**

**Figure J-04-2**

## **Appendix A**

**Proposed Closure Goals**  
**Hawthorne Army Depot**  
**Hawthorne, Nevada**

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Nitrate	Anion	NC	128,000	Calculated Subpart S <sup>a</sup>
2-Amino-dinitrotoluene	Explosive	NC	-	NA <sup>b</sup>
4-Amino-dinitrotoluene	Explosive	NC	-	NA
1,3-Dinitrobenzene	Explosive	NC	8	Calculated Subpart S
2,4-Dinitrotoluene	Explosive	NC	160	Calculated Subpart S
2,6-Dinitrotoluene	Explosive	NC	80	Calculated Subpart S
HMX	Explosive	NC	4,000	Calculated Subpart S
Nitrobenzene	Explosive	NC	40	Calculated Subpart S
Nitrotoluene (2-, 3-, 4-)	Explosive	NC	800	Calculated Subpart S
RDX	Explosive	NC	64	Calculated Subpart S
Tetryl	Explosive	NC	800	Calculated Subpart S
1,3,5-Trinitrobenzene	Explosive	NC	4	Calculated Subpart S
2,4,6-Trinitrotoluene	Explosive	C	233	Calculated Subpart S
Aluminum	Metal	NC	80,000	Calculated Subpart S
Arsenic (cancer endpoint)	Metal	C & NC	30	Background <sup>c</sup>
Barium and compounds	Metal	NC	5,600	Calculated Subpart S
Beryllium and compounds	Metal	C	1	Background
Cadmium and compounds	Metal	NC	40	Calculated Subpart S
Chromium III and compounds	Metal	NC	80,000	Calculated Subpart S
Lead	Metal	NC	1000	PRG <sup>d</sup>
Mercury and compounds (inorganic)	Metal	NC	24	Calculated Subpart S
Selenium	Metal	NC	400	Calculated Subpart S
Silver and compounds	Metal	NC	400	Calculated Subpart S
Acenaphthene	PAH	NC	4,800	Calculated Subpart S
Benzo[a]anthracene	PAH	C	0.96	Calculated Subpart S
Benzo[a]pyrene	PAH	C	0.10	Detection Limit <sup>e</sup>
Benzo[b]fluoranthene	PAH	C	0.96	Calculated Subpart S
Benzo[k]fluoranthene	PAH	C	10	Calculated Subpart S
Chrysene	PAH	C	96	Calculated Subpart S
Dibenz[ah]anthracene	PAH	C	0.96	Calculated Subpart S
Fluoranthene	PAH	NC	3,200	Calculated Subpart S
Fluorene	PAH	NC	3,200	Calculated Subpart S
Indeno[1,2,3-cd]pyrene	PAH	C	-	NA
Naphthalene	PAH	NC	3,200	Calculated Subpart S
Pyrene	PAH	NC	2,400	Calculated Subpart S
Total Petroleum Hydrocarbons as Diesel (TPH-d)	PAH	C	100	NDEP Level Clean-up <sup>f</sup>
Polychlorinated biphenyls (PCBs)	PCBs	C	25	TSCA <sup>g</sup>
Bis(2-ethylhexyl)phthalate (DEHP)	SVOC	C	1,600	Calculated Subpart S
Bromoform (tribromomethane)	SVOC	C	89	Calculated Subpart S

**Proposed Closure Goals**  
**Hawthorne Army Depot**  
**Hawthorne, Nevada**

Constituent of Concern	Chemical Classification	Carcinogenic (C) or Non-carcinogenic (NC)	HWAD Proposed Closure Goals for Soil (mg/kg)	HWAD Proposed Closure Goal Source
Butyl benzyl phthalate	SVOC	NC	16,000	Calculated Subpart S
Dibromochloromethane	SVOC	C	83	Calculated Subpart S
Dibutyl-phthalate	SVOC	NC	8,000	Calculated Subpart S
Diethyl phthalate	SVOC	NC	64,000	Calculated Subpart S
Phenanthrene	SVOC	-	-	NA
Phenol	SVOC	NC	48,000	Calculated Subpart S
Acetone	VOC	NC	800	Calculated Subpart S
Anthracene	VOC	NC	24,000	Calculated Subpart S
Benzene	VOC	C	24	Calculated Subpart S
Bis(2-chloroisopropyl)ether	VOC	C	3,200	Calculated Subpart S
Bromomethane	VOC	NC	112	Calculated Subpart S
Carbon tetrachloride	VOC	C	5	Calculated Subpart S
Chlorobenzene	VOC	NC	1,600	Calculated Subpart S
Chloroform	VOC	C	115	Calculated Subpart S
Chloromethane	VOC	C	538	Calculated Subpart S
Dibromomethane	VOC	C	0.008	Calculated Subpart S
1,2-Dichlorobenzene	VOC	NC	7,200	Calculated Subpart S
1,4-Dichlorobenzene	VOC	C	18,300	Calculated Subpart S
Dichlorodifluoromethane	VOC	C	16,000	Calculated Subpart S
Ethylbenzene	VOC	NC	8,000	Calculated Subpart S
Methylene bromide	VOC	NC	800	Calculated Subpart S
Methylene chloride	VOC	C	4,800	Calculated Subpart S
2-Methylnaphthalene	VOC	-	-	NA
1,1,2,2-Tetrachloroethane	VOC	C	35	Calculated Subpart S
Tetrachloroethylene (PCE)	VOC	C & NC	800	Calculated Subpart S
Toluene	VOC	NC	16,000	Calculated Subpart S
1,1,1-Trichloroethane	VOC	NC	7,200	Calculated Subpart S
Trichloroethylene (TCE)	VOC	C & NC	480	Calculated Subpart S
Trichlorofluoromethane	VOC	NC	24,000	Calculated Subpart S
1,2,3-Trichloropropane	VOC	C	480	Calculated Subpart S
Vinyl chloride	VOC	C	0.37	Calculated Subpart S
Xylene Total (m-, o-, p-)	VOC	NC	160,000	Calculated Subpart S
2,3,7,8-TCDD	Dioxin	C	0.000005	Calculated Subpart S

<sup>a</sup> RCRA 55 FR 30870

<sup>b</sup> Not available

<sup>c</sup> Highest background concentration detected in 50 background soil samples

<sup>d</sup> Smucker, Stanford J. USEPA Region IX, Preliminary Remedial Goals, Second Half, Sep. 1995

<sup>e</sup> Method detection limit for Volatile Organic Compounds by EPA Method 8260 or

Semi-Volatile Organic Compounds analyzed by EPA Method 8270

<sup>f</sup> Nevada Division of Environmental Protection

<sup>g</sup> Cleanup level for PCB spills in accordance with Toxic Substance and Control Act Spill Policy Guidelines 40 CFR 761

## **Appendix B**



**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

**FINAL**

**January 1996**



**FINAL**

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS01-1-SC	0.5	7/21/94	6010	Aluminum	19000	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	6010	Arsenic	27	mg/kg	J
J04-SS01-1-SC	0.5	7/21/94	6010	Barium	72	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	6010	Chromium	2.8	mg/kg	J
J04-SS01-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS01-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS01-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS01-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.28	percent	
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J04-SS02-1-SC	0.5	7/21/94	6010	Aluminum	2700	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	6010	Arsenic	22	mg/kg	J
J04-SS02-1-SC	0.5	7/21/94	6010	Barium	80	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	6010	Chromium	2.4	mg/kg	J
J04-SS02-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS02-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS02-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS02-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.27	percent	
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J04-SS03-1-SC	0.5	7/21/94	6010	Aluminum	3900	mg/kg	



**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

**FINAL**

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**FINAL**

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS03-1-SC	0.5	7/21/94	6010	Arsenic	18	mg/kg	J
J04-SS03-1-SC	0.5	7/21/94	6010	Barium	86	mg/kg	-
J04-SS03-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS03-1-SC	0.5	7/21/94	6010	Chromium	3.2	mg/kg	J
J04-SS03-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS03-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS03-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS03-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS03-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS03-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS03-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.47	percent	

J04-SS04-1-SC	0.5	7/21/94	6010	Aluminum	3800	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	6010	Arsenic	15	mg/kg	J
J04-SS04-1-SC	0.5	7/21/94	6010	Barium	67	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	6010	Chromium	3.3	mg/kg	J
J04-SS04-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS04-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS04-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS04-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.47	percent	

J04-SS05-1-SC	0.5	7/21/94	6010	Aluminum	4200	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	6010	Arsenic	13	mg/kg	J



**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

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**FINAL**

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS05-1-SC	0.5	7/21/94	6010	Barium	78	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	6010	Chromium	3.4	mg/kg	J
J04-SS05-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS05-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS05-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS05-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.48	percent	

J04-SS06-1-SC	0.5	7/21/94	6010	Aluminum	3400	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	6010	Arsenic	33	mg/kg	J
J04-SS06-1-SC	0.5	7/21/94	6010	Barium	78	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	6010	Chromium	2.3	mg/kg	J
J04-SS06-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS06-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS06-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS06-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.38	percent	

J04-SS07-1-SC	0.5	7/21/94	6010	Aluminum	2500	mg/kg	
J04-SS07-1-SC	0.5	7/21/94	6010	Arsenic	16	mg/kg	J
J04-SS07-1-SC	0.5	7/21/94	6010	Barium	68	mg/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

January 1996

**FINAL**

**FINAL**

Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS07-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS07-1-SC	0.5	7/21/94	6010	Chromium	1.9	mg/kg	J
J04-SS07-1-SC	0.5	7/21/94	6010	Lead	5.7	mg/kg	J
J04-SS07-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS07-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS07-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS07-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS07-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS07-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.38	percent	

J04-SS08-1-SC	0.5	7/21/94	6010	Aluminum	3000	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	6010	Arsenic	28	mg/kg	J
J04-SS08-1-SC	0.5	7/21/94	6010	Barium	98	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	6010	Chromium	2.3	mg/kg	J
J04-SS08-1-SC	0.5	7/21/94	6010	Lead	< 6	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	6010	Selenium	< 6	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	6010	Silver	< 1	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	7471	Mercury	< 0.05	mg/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS08-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS08-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS08-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	12	percent	

J04-SS09-1-SC	0.5	7/21/94	6010	Aluminum	4000	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	6010	Arsenic	30	mg/kg	J
J04-SS09-1-SC	0.5	7/21/94	6010	Barium	61	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	



**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

**FINAL**

**January 1996**



**FINAL**

<b>Sample ID</b>	<b>Sample Depth (ft)</b>	<b>Sample Date</b>	<b>Method</b>	<b>Analyte</b>	<b>Value</b>	<b>Units</b>	<b>Flag</b>
J04-SS09-1-SC	0.5	7/21/94	6010	Chromium	2.3	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS09-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS09-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS09-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.65	percent	

J04-SS10-1-SC	0.5	7/21/94	6010	Aluminum	5200	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Aluminum	4500	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Arsenic	20	mg/kg	J
J04-SS10-1-SC	0.5	7/21/94	6010	Arsenic	18	mg/kg	J
J04-SS10-1-SC	0.5	7/21/94	6010	Barium	61	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Barium	56	mg/kg	
J04-SS10-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS10-1-SC	0.5	7/21/94	6010	Chromium	2.3	mg/kg	J
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Chromium	1.5	mg/kg	J
J04-SS10-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS10-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS10-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS10-1-SC (DP120	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS10-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS10-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS10-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS10-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS10-1-SC (DP122	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	2-Nitrotoluene	< 460	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	3-Nitrotoluene	< 390	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	4-Nitrotoluene	< 740	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	HMX	< 210	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	Nitrobenzene	< 90	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	RDX	< 340	ug/kg	
J04-SS10-1-SC (DP121	0.5	7/21/94	8330	Tetryl	< 190	ug/kg	
J04-SS10-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.49	percent	
J04-SS10-1-SC (DP120	0.5	7/21/94	D2216	Moisture/TNFR	0.38	percent	

J04-SS11-1-SC	0.5	7/21/94	6010	Aluminum	3800	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	6010	Arsenic	19	mg/kg	J
J04-SS11-1-SC	0.5	7/21/94	6010	Barium	79	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	6010	Chromium	2.2	mg/kg	J
J04-SS11-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS11-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS11-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS11-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.37	percent	

J04-SS12-1-SC	0.5	7/21/94	6010	Aluminum	19000	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	6010	Arsenic	15	mg/kg	J
J04-SS12-1-SC	0.5	7/21/94	6010	Barium	75	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	6010	Chromium	2.8	mg/kg	J
J04-SS12-1-SC	0.5	7/21/94	6010	Lead	5.7	mg/kg	J
J04-SS12-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	R
J04-SS12-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS12-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS12-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.57	percent	

J04-SS13-1-SC	0.5	7/21/94	6010	Arsenic	19	mg/kg	J
J04-SS13-1-SC	0.5	7/21/94	6010	Barium	66	mg/kg	
J04-SS13-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS13-1-SC	0.5	7/21/94	6010	Chromium	1.7	mg/kg	J
J04-SS13-1-SC	0.5	7/21/94	6010	Lead	6.7	mg/kg	J
J04-SS13-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS13-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS13-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS13-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS13-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS13-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	



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## Summary Table of Analytical Data

## SWMU J04 - 107 Drum Storage

Hawthorne Army Depot

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS13-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.39	percent	
J04-SS13-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.37	percent	

J04-SS14-1-SC	0.5	7/21/94	6010	Aluminum	3700	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	6010	Arsenic	18	mg/kg	J
J04-SS14-1-SC	0.5	7/21/94	6010	Barium	61	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	6010	Chromium	2.2	mg/kg	J
J04-SS14-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS14-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS14-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS14-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.49	percent	

J04-SS15-1-SC	0.5	7/21/94	6010	Arsenic	20	mg/kg	J
J04-SS15-1-SC	0.5	7/21/94	6010	Barium	73	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	6010	Chromium	1.6	mg/kg	J
J04-SS15-1-SC	0.5	7/21/94	6010	Lead	5	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS15-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS15-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS15-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

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<b>Sample ID</b>	<b>Sample Depth (ft)</b>	<b>Sample Date</b>	<b>Method</b>	<b>Analyte</b>	<b>Value</b>	<b>Units</b>	<b>Flag</b>
J04-SS15-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.2	percent	

J04-SS16-1-SC	0.5	7/21/94	6010	Aluminum	84000	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	6010	Arsenic	28	mg/kg	J
J04-SS16-1-SC	0.5	7/21/94	6010	Barium	54	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	6010	Cadmium	2	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	6010	Chromium	3.6	mg/kg	J
J04-SS16-1-SC	0.5	7/21/94	6010	Lead	< 30	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS16-1-SC	0.5	7/21/94	7471	Mercury	0.074	mg/kg	J
J04-SS16-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS16-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS16-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS16-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.2	percent	

J04-SS17-1-SC	0.5	7/21/94	6010	Arsenic	21	mg/kg	J
J04-SS17-1-SC	0.5	7/21/94	6010	Barium	72	mg/kg	
J04-SS17-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS17-1-SC	0.5	7/21/94	6010	Chromium	1.8	mg/kg	J
J04-SS17-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS17-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS17-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS17-1-SC	0.5	7/21/94	7471	Mercury	0.08	mg/kg	J
J04-SS17-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS17-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS17-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS17-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.3	percent	



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## Summary Table of Analytical Data

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
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J04-SS18-1-SC	0.5	7/21/94	6010	Aluminum	2100	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	6010	Arsenic	23	mg/kg	J
J04-SS18-1-SC	0.5	7/21/94	6010	Barium	81	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	6010	Chromium	1.9	mg/kg	J
J04-SS18-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS18-1-SC	0.5	7/21/94	7471	Mercury	0.054	mg/kg	J
J04-SS18-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS18-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS18-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS18-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.29	percent	

J04-SS19-1-SC	0.5	7/21/94	6010	Aluminum	2600	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	6010	Arsenic	22	mg/kg	J
J04-SS19-1-SC	0.5	7/21/94	6010	Barium	56	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	6010	Chromium	1.3	mg/kg	J
J04-SS19-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS19-1-SC	0.5	7/21/94	7471	Mercury	0.076	mg/kg	J
J04-SS19-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS19-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS19-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS19-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.18	percent	



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS20-1-SC	0.5	7/21/94	6010	Aluminum	4600	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Aluminum	3600	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Arsenic	20	mg/kg	J
J04-SS20-1-SC	0.5	7/21/94	6010	Arsenic	17	mg/kg	J
J04-SS20-1-SC	0.5	7/21/94	6010	Barium	71	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Barium	68	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS20-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS20-1-SC	0.5	7/21/94	6010	Chromium	2.9	mg/kg	J
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Chromium	0.9	mg/kg	J
J04-SS20-1-SC	0.5	7/21/94	6010	Lead	5.3	mg/kg	J
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS20-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS20-1-SC (DP123	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS20-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS20-1-SC	0.5	7/21/94	7471	Mercury	0.05	mg/kg	J
J04-SS20-1-SC (DP123	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS20-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS20-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS20-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS20-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS20-1-SC (DP125	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	2-Nitrotoluene	< 460	ug/kg	

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	3-Nitrotoluene	< 390	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	4-Nitrotoluene	< 740	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	HMX	< 210	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	Nitrobenzene	< 90	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	RDX	< 340	ug/kg	
J04-SS20-1-SC (DP124	0.5	7/21/94	8330	Tetryl	< 190	ug/kg	
J04-SS20-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.28	percent	
J04-SS20-1-SC (DP123	0.5	7/21/94	D2216	Moisture/TNFR	0.28	percent	

J04-SS21-1-S	0.5	7/22/94	6010	Aluminum	1800	mg/kg	
J04-SS21-1-S	0.5	7/22/94	6010	Arsenic	18	mg/kg	J
J04-SS21-1-S	0.5	7/22/94	6010	Barium	72	mg/kg	
J04-SS21-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS21-1-S	0.5	7/22/94	6010	Chromium	0.9	mg/kg	J
J04-SS21-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS21-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS21-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS21-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS21-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.55	percent	

J04-SS21-1-SC	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS21-1-SC	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS21-1-SC	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS21-1-SC	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	

J04-SS22-1-S	0.5	7/22/94	6010	Aluminum	2700	mg/kg	
J04-SS22-1-S	0.5	7/22/94	6010	Arsenic	14	mg/kg	J
J04-SS22-1-S	0.5	7/22/94	6010	Barium	53	mg/kg	
J04-SS22-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS22-1-S	0.5	7/22/94	6010	Chromium	1.4	mg/kg	J
J04-SS22-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS22-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS22-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS22-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS22-1-S	0.5	7/22/94	D2216	Moisture/TNFR	1	percent	

J04-SS22-1-SC	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS22-1-SC	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	



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<b>Sample ID</b>	<b>Sample Depth (ft)</b>	<b>Sample Date</b>	<b>Method</b>	<b>Analyte</b>	<b>Value</b>	<b>Units</b>	<b>Flag</b>
J04-SS22-1-SC	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS22-1-SC	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS22-1-SC	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	

J04-SS23-1-S	0.5	7/22/94	6010	Aluminum	1900	mg/kg	
J04-SS23-1-S	0.5	7/22/94	6010	Arsenic	22	mg/kg	J
J04-SS23-1-S	0.5	7/22/94	6010	Barium	64	mg/kg	
J04-SS23-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS23-1-S	0.5	7/22/94	6010	Chromium	1.1	mg/kg	J
J04-SS23-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS23-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS23-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS23-1-S	0.5	7/22/94	7471	Mercury	0.045	mg/kg	J
J04-SS23-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.47	percent	

J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Aluminum	2300	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Arsenic	21	mg/kg	J
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Barium	66	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	7471	Mercury	0.048	mg/kg	J
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS23-1-SC	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS23-1-SC	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS23-1-SC	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS23-1-SC	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS23-1-SC	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS23-1-SC	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS23-1-SC	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS23-1-SC (DP128	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	2-Nitrotoluene	< 460	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	3-Nitrotoluene	< 390	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	4-Nitrotoluene	< 740	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	HMX	< 210	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	Nitrobenzene	< 90	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	RDX	< 340	ug/kg	
J04-SS23-1-SC (DP127	0.5	7/22/94	8330	Tetryl	< 190	ug/kg	
J04-SS23-1-SC (DP126	0.5	7/22/94	D2216	Moisture/TNFR	0.39	percent	

J04-SS24-1-SC	0.5	7/21/94	6010	Aluminum	15000	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	6010	Arsenic	22	mg/kg	J
J04-SS24-1-SC	0.5	7/21/94	6010	Barium	80	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	6010	Chromium	1.3	mg/kg	J
J04-SS24-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	7471	Mercury	< 0.04	mg/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS24-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS24-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS24-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.28	percent	

J04-SS25-1-SC	0.5	7/21/94	6010	Aluminum	26000	mg/kg	
J04-SS25-1-SC	0.5	7/21/94	6010	Arsenic	19	mg/kg	J

**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS25-1-SC	0.5	7/21/94	6010	Barium	74	mg/kg	
J04-SS25-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS25-1-SC	0.5	7/21/94	6010	Chromium	1.2	mg/kg	J
J04-SS25-1-SC	0.5	7/21/94	6010	Lead	5.8	mg/kg	J
J04-SS25-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS25-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS25-1-SC	0.5	7/21/94	7471	Mercury	0.049	mg/kg	J
J04-SS25-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS25-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS25-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS25-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.19	percent	

J04-SS26-1-SC	0.5	7/21/94	6010	Aluminum	2900	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	6010	Arsenic	19	mg/kg	J
J04-SS26-1-SC	0.5	7/21/94	6010	Barium	70	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	6010	Chromium	0.7	mg/kg	J
J04-SS26-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS26-1-SC	0.5	7/21/94	7471	Mercury	0.053	mg/kg	J
J04-SS26-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS26-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS26-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS26-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.1	percent	

J04-SS27-1-SC	0.5	7/21/94	6010	Aluminum	2900	mg/kg	
J04-SS27-1-SC	0.5	7/21/94	6010	Arsenic	23	mg/kg	J
J04-SS27-1-SC	0.5	7/21/94	6010	Barium	77	mg/kg	

**Summary Table of Analytical Data**



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**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS27-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS27-1-SC	0.5	7/21/94	6010	Chromium	1.3	mg/kg	J
J04-SS27-1-SC	0.5	7/21/94	6010	Lead	< 5	mg/kg	
J04-SS27-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS27-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS27-1-SC	0.5	7/21/94	7471	Mercury	0.056	mg/kg	J
J04-SS27-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS27-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS27-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS27-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.18	percent	

J04-SS28-1-S	0.5	7/22/94	6010	Aluminum	2400	mg/kg	
J04-SS28-1-S	0.5	7/22/94	6010	Arsenic	20	mg/kg	J
J04-SS28-1-S	0.5	7/22/94	6010	Barium	52	mg/kg	
J04-SS28-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS28-1-S	0.5	7/22/94	6010	Chromium	0.8	mg/kg	J
J04-SS28-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS28-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS28-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS28-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS28-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS28-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS28-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.47	percent	

J04-SS29-1-S	0.5	7/22/94	6010	Aluminum	2000	mg/kg	
J04-SS29-1-S	0.5	7/22/94	6010	Arsenic	25	mg/kg	J
J04-SS29-1-S	0.5	7/22/94	6010	Barium	82	mg/kg	
J04-SS29-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	

**Summary Table of Analytical Data**

**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot  
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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS29-1-S	0.5	7/22/94	6010	Chromium	0.6	mg/kg	
J04-SS29-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS29-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS29-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS29-1-S	0.5	7/22/94	7471	Mercury	0.048	mg/kg	J
J04-SS29-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS29-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS29-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS29-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.7	percent	

J04-SS30-1-S	0.5	7/22/94	6010	Aluminum	1500	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Arsenic	19	mg/kg	J
J04-SS30-1-S	0.5	7/22/94	6010	Barium	60	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS30-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS30-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS30-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS30-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS30-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.29	percent	

J04-SS31-1-S	0.5	7/22/94	6010	Aluminum	3700	mg/kg	
J04-SS31-1-S	0.5	7/22/94	6010	Arsenic	13	mg/kg	J
J04-SS31-1-S	0.5	7/22/94	6010	Barium	56	mg/kg	
J04-SS31-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS31-1-S	0.5	7/22/94	6010	Chromium	2.6	mg/kg	J



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## Summary Table of Analytical Data

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Hawthorne Army Depot

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS31-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	--
J04-SS31-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	--
J04-SS31-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS31-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS31-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS31-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS31-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.66	percent	

J04-SS32-1-S	0.5	7/22/94	6010	Aluminum	2100	mg/kg	
J04-SS32-1-S	0.5	7/22/94	6010	Arsenic	22	mg/kg	J
J04-SS32-1-S	0.5	7/22/94	6010	Barium	76	mg/kg	
J04-SS32-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS32-1-S	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS32-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS32-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	--
J04-SS32-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS32-1-S	0.5	7/22/94	7471	Mercury	0.044	mg/kg	J
J04-SS32-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS32-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS32-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS32-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.38	percent	

J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Aluminum	1800	mg/kg	
J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Arsenic	20	mg/kg	J
J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Barium	71	mg/kg	
J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS32-1-SC (DP129	0.5	7/22/94	6010	Lead	< 5	mg/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot  
Hawthorne, Nevada



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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS32-1-SC (DP129)	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS32-1-SC (DP129)	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS32-1-SC (DP129)	0.5	7/22/94	7471	Mercury	0.051	mg/kg	J
J04-SS32-1-SC (DP129)	0.5	7/22/94	D2216	Moisture/TNFR	0.28	percent	

J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS32-1-SD (DP131)	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	1,3,5-Trinitrobenzene	< 90	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	1,3-Dinitrobenzene	< 40	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	2,4,6-Trinitrotoluene	< 190	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	2,4-Dinitrotoluene	< 190	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	2,6-Dinitrotoluene	< 170	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	2-Nitrotoluene	< 460	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	3-Nitrotoluene	< 390	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	4-Nitrotoluene	< 740	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	HMX	< 210	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	Nitrobenzene	< 90	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	RDX	< 340	ug/kg	
J04-SS32-1-SD (DP130)	0.5	7/22/94	8330	Tetryl	< 190	ug/kg	

J04-SS33-1-S	0.5	7/22/94	6010	Aluminum	1300	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Arsenic	24	mg/kg	J
J04-SS33-1-S	0.5	7/22/94	6010	Barium	83	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS33-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS33-1-S	0.5	7/22/94	7471	Mercury	0.055	mg/kg	J
J04-SS33-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS33-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	

**Summary Table of Analytical Data**



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**SWMU J04 - 107 Drum Storage**  
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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS33-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS33-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS33-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.18	percent	

J04-SS34-1-S	0.5	7/22/94	6010	Aluminum	2000	mg/kg	
J04-SS34-1-S	0.5	7/22/94	6010	Arsenic	31	mg/kg	J
J04-SS34-1-S	0.5	7/22/94	6010	Barium	60	mg/kg	
J04-SS34-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS34-1-S	0.5	7/22/94	6010	Chromium	0.8	mg/kg	J
J04-SS34-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS34-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS34-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS34-1-S	0.5	7/22/94	7471	Mercury	< 0.04	mg/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS34-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS34-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS34-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.38	percent	

J04-SS35-1-S	0.5	7/22/94	6010	Aluminum	2200	mg/kg	
J04-SS35-1-S	0.5	7/22/94	6010	Arsenic	20	mg/kg	J
J04-SS35-1-S	0.5	7/22/94	6010	Barium	75	mg/kg	
J04-SS35-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS35-1-S	0.5	7/22/94	6010	Chromium	0.8	mg/kg	J
J04-SS35-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS35-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS35-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS35-1-S	0.5	7/22/94	7471	Mercury	0.046	mg/kg	J
J04-SS35-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.29	percent	

J04-SS35-1-SC	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS35-1-SC	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot  
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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS35-1-SC	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS35-1-SC	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS35-1-SC	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	

J04-SS36-1-S	0.5	7/22/94	6010	Aluminum	1800	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Arsenic	29	mg/kg	J
J04-SS36-1-S	0.5	7/22/94	6010	Barium	84	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Chromium	< 0.6	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Lead	< 5	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS36-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS36-1-S	0.5	7/22/94	7471	Mercury	0.08	mg/kg	J
J04-SS36-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS36-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS36-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS36-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.39	percent	
J04-SS36-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.28	percent	

J04-SS37-1-S	0.5	7/22/94	6010	Aluminum	2000	mg/kg	
J04-SS37-1-S	0.5	7/22/94	6010	Arsenic	51	mg/kg	J
J04-SS37-1-S	0.5	7/22/94	6010	Barium	56	mg/kg	
J04-SS37-1-S	0.5	7/22/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS37-1-S	0.5	7/22/94	6010	Chromium	1.1	mg/kg	J
J04-SS37-1-S	0.5	7/22/94	6010	Lead	6.1	mg/kg	J
J04-SS37-1-S	0.5	7/22/94	6010	Selenium	< 5	mg/kg	
J04-SS37-1-S	0.5	7/22/94	6010	Silver	< 0.9	mg/kg	
J04-SS37-1-S	0.5	7/22/94	7471	Mercury	0.044	mg/kg	J
J04-SS37-1-S	0.5	7/22/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UJ-
J04-SS37-1-S	0.5	7/22/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	3-Nitrotoluene	< 1000	ug/kg	

**Summary Table of Analytical Data**



**SWMU J04 - 107 Drum Storage**

Hawthorne Army Depot

Hawthorne, Nevada

**FINAL**

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Sample ID	Sample Depth (ft)	Sample Date	Method	Analyte	Value	Units	Flag
J04-SS37-1-S	0.5	7/22/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	8090M	RDX	< 50000	ug/kg	R
J04-SS37-1-S	0.5	7/22/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS37-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.2	percent	
J04-SS37-1-S	0.5	7/22/94	D2216	Moisture/TNFR	0.1	percent	

J04-SS38-1-SC	0.5	7/21/94	6010	Aluminum	2500	mg/kg	
J04-SS38-1-SC	0.5	7/21/94	6010	Arsenic	20	mg/kg	J
J04-SS38-1-SC	0.5	7/21/94	6010	Barium	76	mg/kg	
J04-SS38-1-SC	0.5	7/21/94	6010	Cadmium	< 0.2	mg/kg	
J04-SS38-1-SC	0.5	7/21/94	6010	Chromium	0.9	mg/kg	J
J04-SS38-1-SC	0.5	7/21/94	6010	Lead	8.8	mg/kg	J
J04-SS38-1-SC	0.5	7/21/94	6010	Selenium	< 5	mg/kg	
J04-SS38-1-SC	0.5	7/21/94	6010	Silver	< 0.9	mg/kg	
J04-SS38-1-SC	0.5	7/21/94	7471	Mercury	0.045	mg/kg	J
J04-SS38-1-SC	0.5	7/21/94	8090M	1,3,5-Trinitrobenzene	< 1000	ug/kg	UU-
J04-SS38-1-SC	0.5	7/21/94	8090M	1,3-Dinitrobenzene	< 250	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	2,4,6-Trinitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	2,4-Dinitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	2,6-Dinitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	2-Nitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	3-Nitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	4-Nitrotoluene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	Nitrobenzene	< 1000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	8090M	RDX	< 50000	ug/kg	R
J04-SS38-1-SC	0.5	7/21/94	8090M	Tetryl	< 50000	ug/kg	
J04-SS38-1-SC	0.5	7/21/94	D2216	Moisture/TNFR	0.19	percent	

## **Appendix C**

**Survey Data at SWMU J-04**  
**Hawthorne Army Depot**  
**Hawthorne, Nevada**

<b>Point Name</b>	<b>Northing</b>	<b>Easting</b>
SS-5	486558.9	1397158.22
SS-6	486733.2	1396930
SS-7	486943.44	1396782.45
SS-8	484832.83	1399277.74
SS-9	485304.17	1399124.09

Footnote: Survey data in Nevada State Plane West, 1927 coordinates.

## **Appendix D**

